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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,830	11/07/2001	Young Seo Park	28490-2500	8659
7590	04/07/2003			
Cynthia L Pillote Snell & Wilmer One Arizona Center Phoenix, AZ 85004-2202			EXAMINER	DONOVAN, LINCOLN D
		ART UNIT	PAPER NUMBER	
		2832		
DATE MAILED: 04/07/2003 6				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 10/019,830	Applicant(s) Park et al.
	Examiner Lincoln Donovan
	Art Unit 2832

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on _____

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-7 is/are pending in the application.

4a) Of the above, claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-7 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claims _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some* c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892)

4) Interview Summary (PTO-413) Paper No(s). _____

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

5) Notice of Informal Patent Application (PTO-152)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). 5

6) Other:

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. The disclosure is objected to because of the following informalities: on page 14, line 17 has been typed over. On page 17, line 5, and page 21, line 20, applicant should clarify the designations "0 163c . ranged" and "magnetm / etic . rce," respectively.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 5, line 9, it is not clear what applicant intends by "star-dm / -del(.)"

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Plumeret et al. [US 5,289,46] in view of Gschlössl [US 4,994,725].

Plumeret et al. discloses a contactor apparatus for an electric motor [figure 9] comprising:

- a body [figure 2];
- at least three power terminals [22-24] connected to three-phase power lines [R, S and T] and insulated from one another;
- at least three main starting terminals [15-17] respectively connected to terminals of a three-phase motor [M];
- at least three star-delta terminals [25-27] connected to the three-phase motor;
- an electromagnet for a main circuit [7];
- an electromagnet for the star-delta terminals [6]; and
- main and star-delta circuit switching units [figure 3].

Plumeret et al. disclose the instant claimed invention except for: the specific arrangement of the terminals on the body.

Gschlössl discloses a drive arrangement having motor terminals mounted on an opposite end of the body than the power terminals.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the mounting arrangement of Gschlössl for the terminals of Plumeret et al. for the purpose of improving isolation.

Regarding claim 2, the provision of a timer would have been an obvious design consideration in order to provide a timed operation.

Regarding claim 3, Plumeret et al. disclose the switch sections being isolated [figure 1].

Regarding claims 4-5, the specific operation sequence of the switching would have been an obvious design consideration based on the intended motor functions.

Regarding claim 6, Plumeret et al. discloses the switches being spring biased.

Regarding claim 7, the provision of an arc extinguishment means would have been obvious in order to prevent damage to the switching assembly from arc gases.

Conclusion

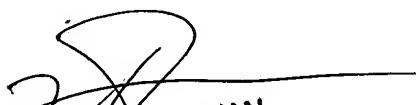
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Lincoln Donovan whose telephone number is (703) 308-3111.

The fax number for this Group is (703)-872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1782.

LDD

March 26, 2003


LINCOLN DONOVAN
PRIMARY EXAMINER
GROUP 2100